MPS-1100 User Manual

Mega Pool Saver Ltd

PLEASE READ CAREFULLY BEFORE INSTALLING OR USING MEGA POOL SAVER MPS-1100

For further up to date instructions on how to install Mega Pool Saver MPS-1100, please see our installation video on our website at www.megapoolsaver.co.uk.

Contents

1. Introduction 2
2. Important Safety Information 3
3. Important Location Requirements 3
4. Before Installing Mega Pool Saver MPS1100 4
5. Mega Pool Saver MPS1100 Technical Data 4
7. Connecting the MPS-1100 To The Pool Pump 6
8. Mega Pool Saver MPS 1110 Control Panel 6
9. Returns Information 8
10. WEEE Legislation 8
11. CE Marking and Standards 9
12. Storage 9
13. Dimensions and Weight 10

IMPORTANT

This booklet should be retained for future reference after installation.

Imprint
All rights reserved.
© Copyright by: Mega Pool Saver Ltd
This user manual may only be reprinted or copied in whole or in part with the express, written approval of Mega Pool Saver Ltd. Any type of reproduction, distribution or storage on data carriers in any form and of any kind not authorised by Mega Pool Saver Ltd represents a violation of the applicable copyright laws and will be prosecuted. We reserve the right to make technical changes which serve to improve the device, or which increase the safety standard – even without separate prior notice.

1. Introduction

Thank you for purchasing the **Mega Pool Saver MPS-1100**. To enjoy the energy saving benefits of this device, please take the time to read this manual thoroughly **BEFORE** beginning installation. Please keep this manual for future reference.

If you experience any difficulty with the installation or operation of your new Mega Pool Saver MPS-1100, then please contact your supplier.

2. Important Safety Information

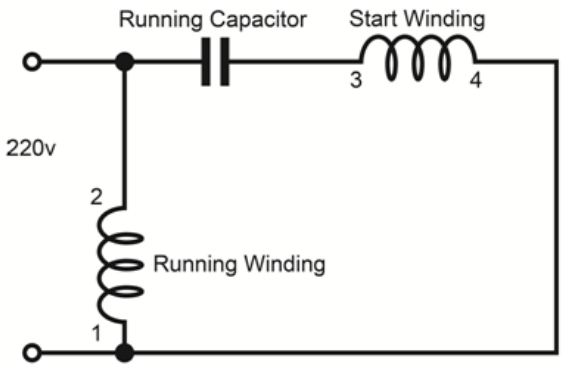
1. Mega Pool Saver has been designed for your convenience, economy and safety of use, provided that it is installed and used in accordance with our instructions and recommendations.
2. **This product must be installed as per this installation manual. Failure to follow the guidelines and instructions may result in an electrical hazard which may cause serious injury (even death), or property damage.**
3. This device should **ONLY** be used with PSC **(Permanent Split Capacitor) domestic SINGLE SPEED swimming pool pumps**. See Figure 1 to see a typical single speed swimming pool pump motor.
4. **The Mega Pool Saver MPS-1100 is NOT COMPATIBLE WITH**:
    a. Split phase pool pump motors with centrifugal switch gear
    b. Pool pump motors with start relays
    c. Series or DC motors
    d. Pool pump motors with faults in their rotors or capacitors
    e. ANY OTHER APPLIANCE OR MOTOR other than those stated in this document.

WARNING: If you are in any doubt about the compatibility of your pool pump with this device, please contact us before proceeding with installation on technicalsupport@megapoolsaver.co.uk

5. **To reduce the risk of injury, do not permit children to use this device.**

Figure 1.

Typical single speed swimming pool pump motor diagram.



3. Important Location Requirements

1. The warranty may be compromised if the Mega Pool Saver is not installed in accordance with the installation guidelines.

2. The Mega Pool Saver can be installed indoors or outdoors. It should be installed in a location somewhere with a free flow of air, where the ambient temperature is between -10°C and +40°C. It should be installed in a location that is out of direct sunlight. The minimum requirements for airflow around the heat sink are a major factor contributing to efficient cooling of the Mega Pool Saver and as a result the Mega Pool Saver should never be installed where these minimum space requirements are not met.
3. The Mega Pool Saver must be mounted on a non flammable flat surface such as a wall. Allow at least 400mm clearance from the top, 400mm from the bottom and 70mm on each side of the Mega Pool Saver.
4. Do not mount Mega Pool Savers above each other or another source of hot air. Do not install the Mega Pool Saver anywhere that it is likely to accumulate debris such as tree leaves or large amounts of dust. Do not mount the Mega Pool Saver in a cupboard or an enclosed space with no air flow as this may cause the Mega Pool Saver to overheat and potentially cause damage.
5. Make sure the mounting surface can support the weight of the Mega Pool Saver before you begin. If you are installing on plaster board, use supporting material such as plywood or secure the fasteners to supporting wall studs. The mounting bracket must not be installed directly on galvanised steel.
6. The Mega Pool Saver MPS-1100 should be installed in a location which makes it unlikely to be damaged(e.g. by impact from persons, objects or vehicles), where it is accessible for operating, adjusting and maintaining, and where sufficient space to make the input and output connections without stress on (or kinking) of the conductors.

WARNING: Mega Pool Saver should not be installed ON OR CLOSE TO flammable materials

4. Before Installing Mega Pool Saver MPS1100

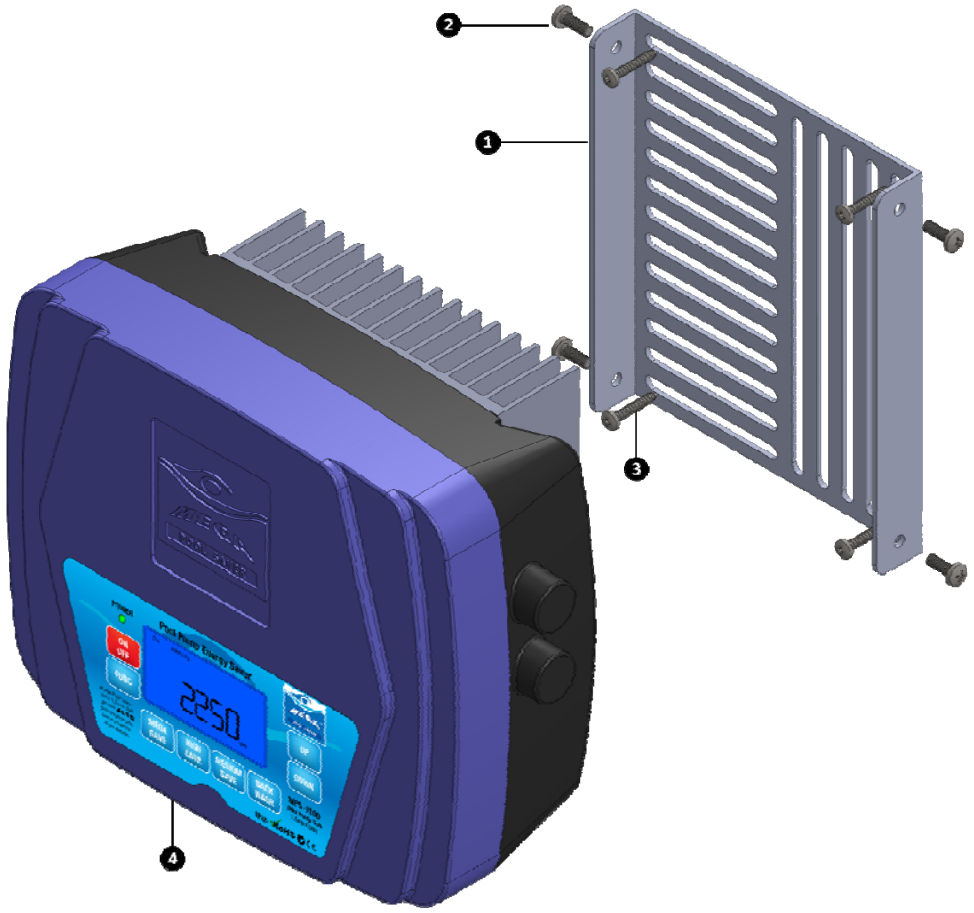
1. Check to see if the Mega Pool Saver MPS-1100 has been damaged in transit. If it is found to be damaged you **SHOULD NOT PROCEED** with installation and contact your supplier.
2. If the supply cord is damaged DO NOT PROCEED WITH INSTALLATION. This should only be replaced by the manufacturer. Contact your supplier for further instruction.
3. Do not use extension leads with the Mega Pool Saver MPS-1100. This can pose a danger particularly in the vicinity of a swimming pool.
4. If the supply cord is damaged, do not proceed with installation, and contact your supplier.
5. **This device should ONLY be used with PSC (Permanent Split Capacitor) SINGLE SPEED swimming pool pumps. See Figure 1 to see a typical single speed swimming pool pump motor.**
6. If you are unsure if your pump is compatible with Mega Pool Saver MPSS 1100, please contact technicalsupport@megapoolsaver.co.uk with your pool pump details and we will confirm compatibility.
7. The installation environment has a direct impact on the normal function and life of the Mega Pool Saver MPS-1100, therefore the device should be installed in a place that meets the following conditions:
    a. Temperature should remain between-10 and +40 degrees Celsius
    b. Away from direct sunlight
    c. The weather protector supplied should ALWAYS be installed when using the Mega Pool Saver externally.

WARNING: Due to the potential risk of fire, electric shock, or injuries to persons, *Mega Pool Saver MPS1100* must be connected to an electrical circuit that has earth leakage protection (RCD) of a maximum of 30mA. The circuit MUST also comply with local and national electrical standards and safety codes. If you are in ANY doubt please contact a qualified electrician to check your house wiring and confirm.

5. Mega Pool Saver MPS1100 Technical Data

Input power 1～ 220-240V
Output power 1～220-240V
Input Frequency 50Hz
Maximum power 1100W (1.1KW)
Max Current 10A
IP65
Class I appliance – accessible conductive parts are earthed
Appliance has inbuilt overcurrent protection (10A)
This unit can ONLY be connected to a TN electrical supply

6. Installing Mega Pool Saver MPS-1100



❶ Wall mounting bracket.

❷ Controller to mounting bracket screws.

❸ Wall mounting screws

❹ Mega Pool Saver Controller

<u>WARNING:</u> Do not expose the user interface to direct sunlight. Too much direct sunlight will shorten the life of the display. If installing externally, you MUST use the supplied weather cover.

1. Turn off all electrical power to the pool pump at the main switch or at the chlorinator which provides electrical power to the pump.
2. Retrieve a minimum of two (2) fasteners (supplied) to attach the back plate to the wall ensuring the leads will reach This will ensure the *Mega Pool Saver MPS-1100* is held securely in place.

Check to ensure there is a minimum of 400mm between the bottom of the back plate and the ground/floor.(ensure controller is mounted out of direct sunlight and under cover)

3. The back plate has ten (10) mounting holes to choose from. See Figure 2. Mark the hole locations on the wall and then use the fasteners to secure the back plate to the wall.
4. Using the screws supplied, mount the Mega Pool Saver onto the back plate. See Figure 2.

WARNING: Please note, this appliance weighs 3.5kgs and therefore it is extremely important that it is mounted securely to a hard static non flammable surface such as a concrete wall.

For more information on installing the MPS-1100 please see the website and installation video.

7. Connecting the MPS-1100 To The Pool Pump

WARNING: Only ONE pump can be connected to the Mega Pool Saver MPS-1100. No other appliance can be connected to the output. Failure to comply with this will result in damage to the Mega Pool Saver MPS-1100 and/or appliance and may cause severe injury, death or property damage. Improper installation and/or operation will also void the warranty of the Mega Pool Saver MPS-1100.

The following steps provide the procedure for connecting the Mega Pool Saver MPS-1100 to a single speed (PSC) swimming pool pump.

1. Turn off all power to your pool pump.
2. Remove the pump's plug from the bottom of the chlorinator or timer.
3. Plug the pool pump into the Mega Pool Saver power outlet marked (PUMP CONNECTION ONLY)

WARNING: You can only use an energy monitor on the input side of the Mega Pool Saver MPS-1100 as this is what will show your energy usage. DO NOT connect an energy monitor to the output pump connection.

4. Plug the Mega Pool Saver MPS-1100 into the chlorinator/timer connection where the pump was originally plugged into
5. Switch all power back on
6. Ensure chlorinator/timer is active
7. Now your Mega Pool Saver MPS-1100 is ready to run just follow the programming guide.

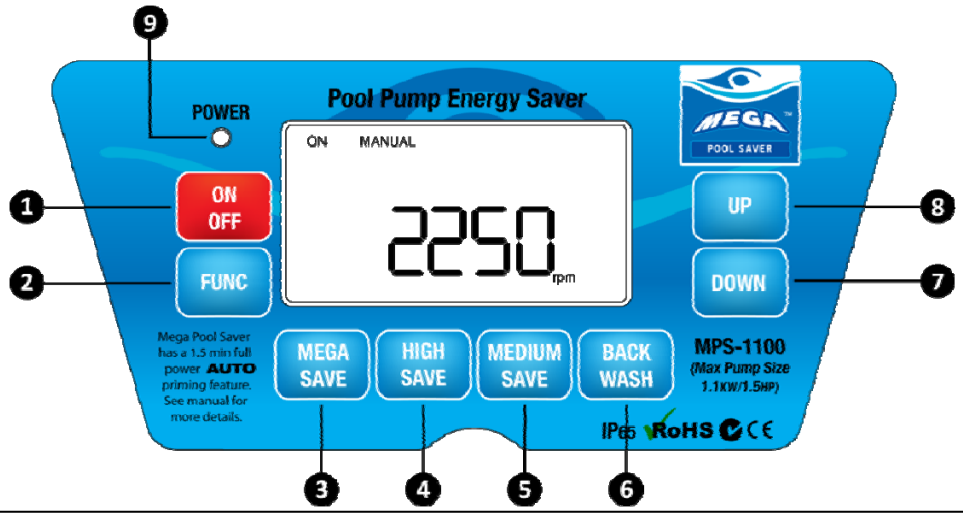
WARNING: Do not touch the heat sink while the Mega Pool Saver MPS-1100 is in operation or until at least 30 minutes after it has been switched off.

8. Mega Pool Saver MPS 1110 Control Panel

The Mega Pool Saver MPS-1100 **control panel** provides both **manual** (manually selected speeds) and **Auto** (automatic time and speed control). See below for a description of control panel functions.

For more information on programming the MPS-1100 please see the programming guide and the programming video on the website.

Figure 3



❶ ON / OFF	Used to turn the pump on and off.
❷ Function	Used for switching between functions and also programming.
❸ Mega Save	Mega savings up to 80% 1200rpm (not recommended when using a pool cleaner which requires pressure or vacuum)
❹ High Save	High savings up to 70% 1750rpm (recommended when using a pool cleaner which requires pressure or vacuum)
❺ Medium Save	Medium savings up to 60% 2000rpm (recommended if using a small pump on large pool)
❻ Back Wash	Low savings up to 45% 2700rpm (recommended for back washing filter)
❼ Down	Used to adjust speed and time settings
❽ Up Button	Used to adjust speed and time settings

9. Warranty Information

Please read and understand the Warranty Terms and Conditions in full. Failure to follow the instructions in this installation manual in full can result in damage to property and/or persons and void the warranty.

Terms and Conditions

The Mega Pool Saver MPS-1100 comes with a 24 month factory warranty from the date of purchase.

Within the warranty period we will resolve any factory defects in the product resulting from faulty workmanship or material on the condition that:

1. The device has been correctly installed in accordance with our instructions
2. The device has been used in accordance with these instructions and has not been tampered with or otherwise subject to neglect or accident.
3. The device has not been taken apart, modified or repaired except by a person authorised by Mega Pool Saver Ltd.
4. The device has not been used for any purpose other than the intended use and within the rating limit.
5. Evidence of the date of purchase in the form of an invoice or receipt can be provided in order to qualify for an in-warranty repair
6. The service work to be undertaken will only be undertaken by Mega Pool Saver Ltd, or our approved agents.

EXCLUSIONS

This warranty **DOES NOT** cover damage or defects arising from poor or incorrect installation or improper use. It is the responsibility of the installer to check that the installation parameters meet the requirements of the product, and any relevant regulations.

Wear and tear of the device is NOT covered by this warranty.

Damaged caused by exposure to water to this device is NOT covered by this warranty.

The warranty applies to a repair or replacement (at our discretion) of the product subject to the conditions above, and **DOES NOT** cover compensation for the loss of the product or consequential loss of any kind.

If the warranty seal has been broken the warranty will be voided.

This warranty does not apply to the repair or replacement of pool pumps connected to this device. It is the responsibility of the installer to ensure that this product is compatible with Mega Pool Saver MPS-1100.

This warranty does not affect your statutory rights.

PLEASE NOTE:

It is the **CUSTOMER'S RESPONSIBILITY** to return the product to the place of purchase if there is a valid warranty claim. A copy of the proof of purchase must be returned with the faulty Mega Pool Saver MPS-1100. If Mega Pool Saver Ltd accept the warranty claim they will refund the return postage fee along with the repaired or replaced Mega Pool Saver MPS-1100, otherwise all repair and postage costs will be payable by the purchaser.

As Mega Pool Saver MPS-1100 is a portable device, this warranty is valid for 24 months from the original purchase of the product even when the customer moves residence. All terms and conditions stated above apply when the device is used with a different pool pump within that warranty period. Proof of original purchase will be required for all claims.

No warranty of accuracy is given concerning the contents of the information contained in this manual. To the extent permitted by law no liability (including liability to any person by reason of negligence) will be accepted by Mega Pool Saver Ltd, its subsidiaries or employees for any direct or indirect loss or damage caused by omissions from or inaccuracies in this document.

Mega Pool Saver Ltd reserves the right to change details in this publication without notice.

10.Returns Information

Before you return the Mega Pool Saver MPS-1100 please contact your supplier

11.WEEE Legislation

The symbol on the product or its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste for recycling, please contact your local authority, or where you purchased your product.

12.CE Marking and Standards

The Mega Pool Saver MPS-1100 meets the following standards for CE marking:

CE

Standard	Title
EN 61800-5-1:2007	Adjustable speed electrical power drive systems -- Part 5-1: Safety requirements - Electrical, thermal and energy.
EN 61800-3:2004+A1:2012	Adjustable speed electrical power drive systems. EMC requirements and specific test methods.
EN 60529:1992+A2:2013	Degrees of protection provided by enclosures (IP code)
EN 50419:2006	Marking of electrical and electronic equipment in accordance with Article 11(2) of Directive 2002/96IEC (WEEE)
EN 50581:2012	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

13.Storage

When not in use, the Mega Pool Saver MPS-1100 should be stored in a cool dry place.

13. Maintenance

The Mega Pool Saver MPS-1100 does not require any maintenance.

14.Dimensions and Weight

Dimensions

Width:	220mm
Height:	180mm
Depth:	120mm
Weight:	3.5kg